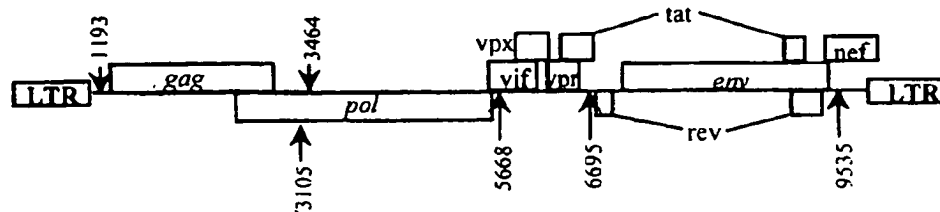
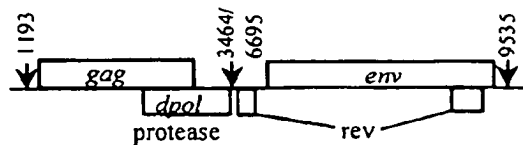


FIG. 1

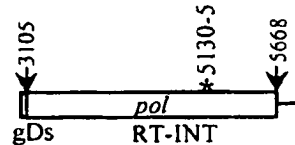
SIVmac239



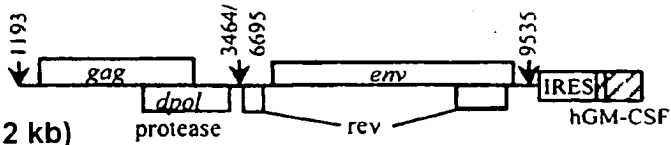
SIV/GE (5.1 kb)



SIV/pol (2.7kb)



SIV/GE-GC (6.2 kb)



SIV/pol-IL-2 (3.7kb)

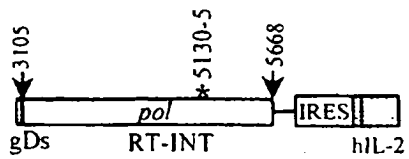
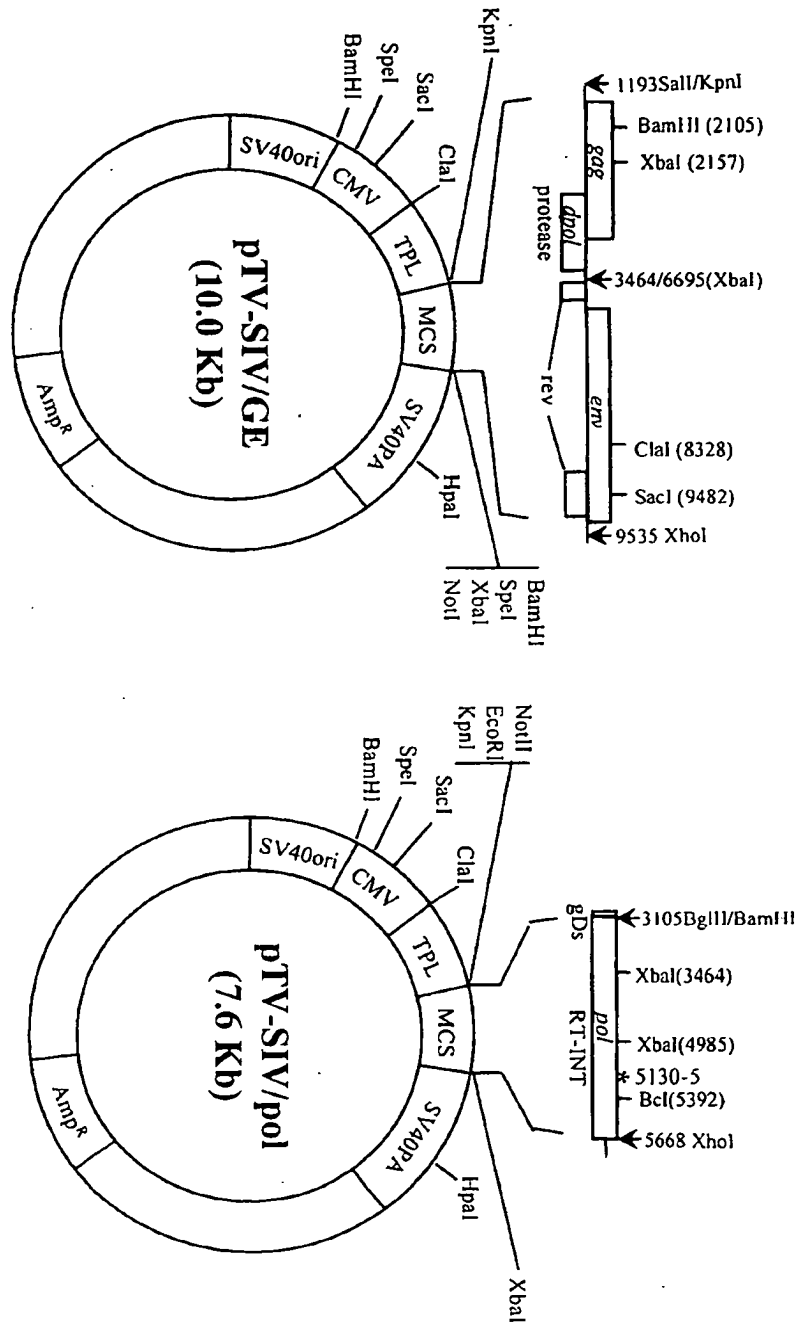


FIG. 2



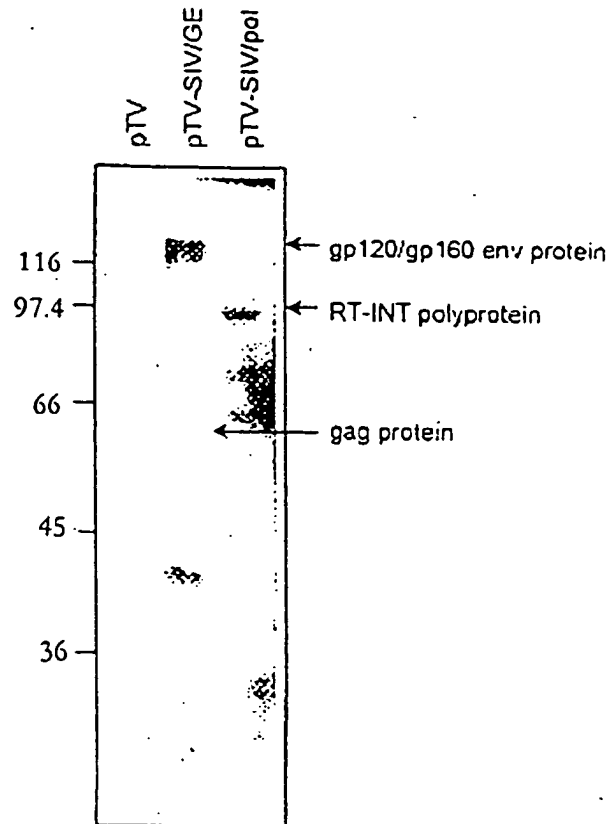
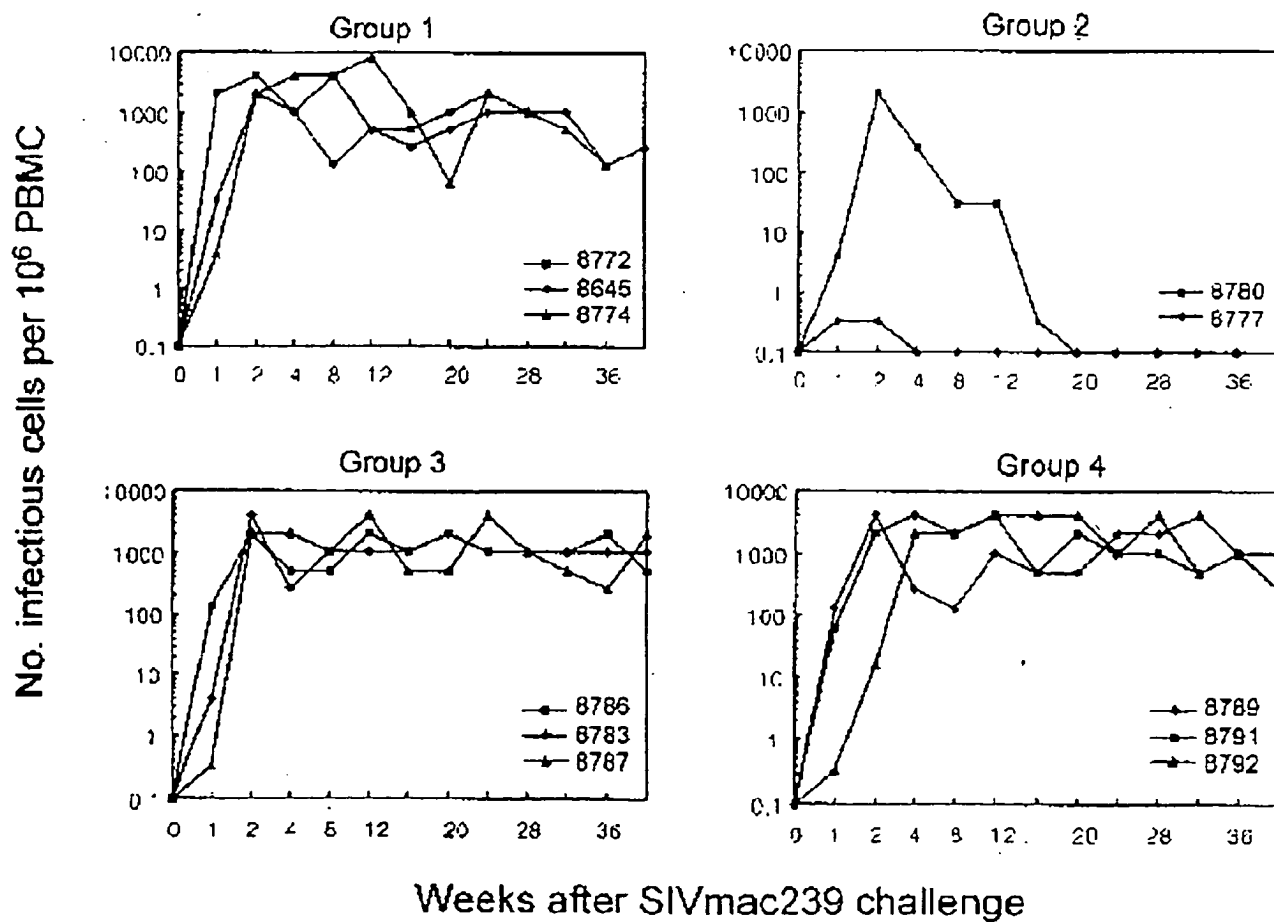


FIG. 3

FIG. 4

wpi	Controls (Group 1)			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1	32	2048	4	0.33	4	4	128	0.33	128	64	0.33
2	2048	4096	2048	0.33	2048	4096	2048	2048	4096	2048	16
4	1024	1024	4096	0.1	256	256	512	2048	256	4096	2048
8	128	4096	4096	0.1	32	1024	512	1024	128	2048	2048
12	512	512	8192	0.1	32	1024	2048	4096	1024	4096	4096
16	256	512	1024	0.1	0.33	1024	1024	512	512	512	4096
20	512	1024	64	0.1	0.1	2048	2048	512	512	2048	4096
24	1024	2048	2048	0.1	0.1	1024	1024	4096	2048	1024	1024
28	1024	1024	1024	0.1	0.1	1024	1024	1024	2048	1024	4096
32	1024	-	512	0.1	0.1	1024	1024	512	4096	512	512
36	128	-	128	0.1	0.1	1024	2048	256	1024	1024	1024
40	256	-	-	0.1	0.1	1024	512	2048	256	1024	1024



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Group 1

Weeks post challenge	8645	8772	8774
-1	1750	900	900
1	1650	650	650
2	2150	900	600
4	950	350	1000
6	950	1000	850
8	300	950	300
12	900	900	350
16	1050	900	400
20	1000	1000	550
24	750	750	550
28	550	550	550

Group 2

Weeks post challenge	8777	8780
-1	1100	1100
1	1450	1100
2	1150	850
4	1250	750
6	1100	1100
8	1850	800
12	850	850
16	1800	1050
20	1350	850
24	1600	500
28	1250	1050

Group 3

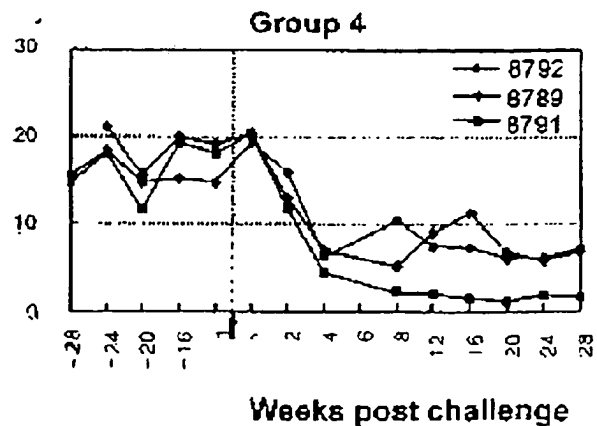
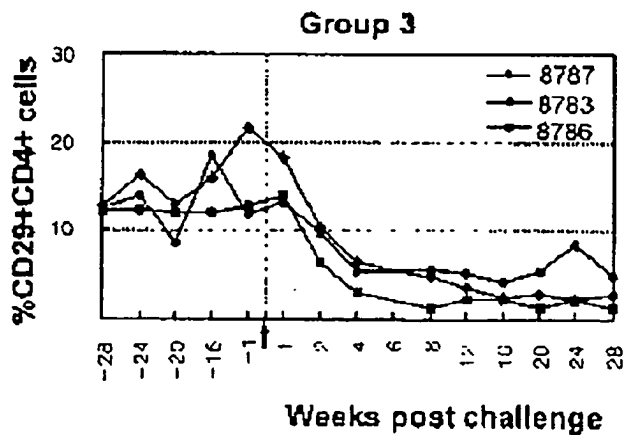
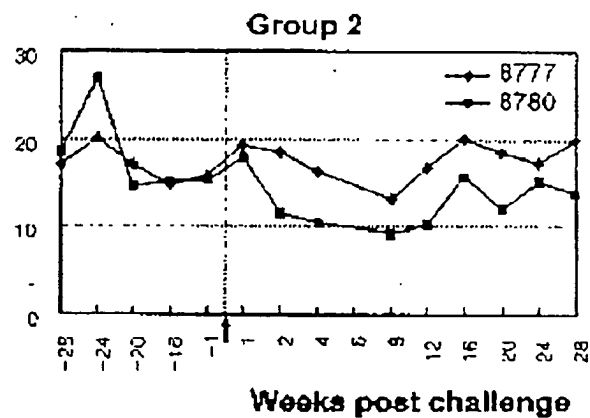
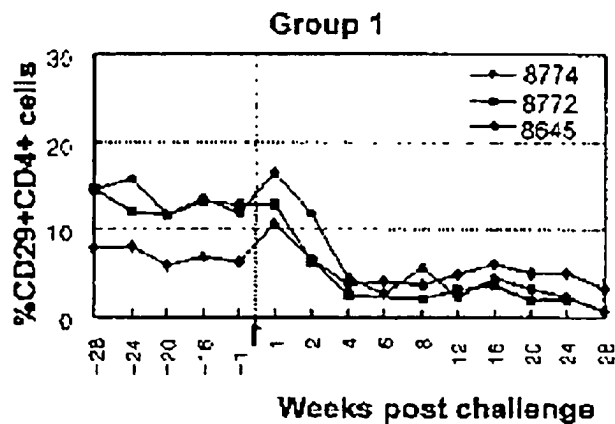
Weeks post challenge	8786	8787	8783
-1	1550	700	700
1	1800	1000	1000
2	1000	650	1000
4	1200	750	600
6	1000	400	400
8	350	350	100
12	500	500	450
16	1150	300	300
20	650	700	650
24	600	600	350
28	550	550	550

Group 4

Weeks post challenge	8792	8791	8789
-1	700	700	700
1	900	900	700
2	950	850	550
4	300	300	300
6	300	300	300
8	150	150	150
12	600	150	400
16	550	100	550
20	750	350	350
24	350	150	150
28	600	400	150

FIG. 6

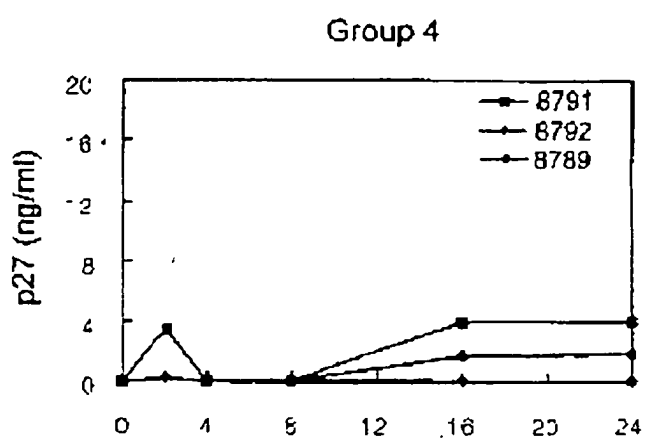
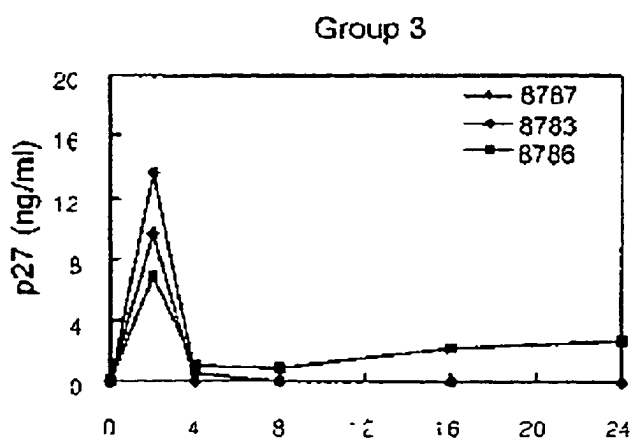
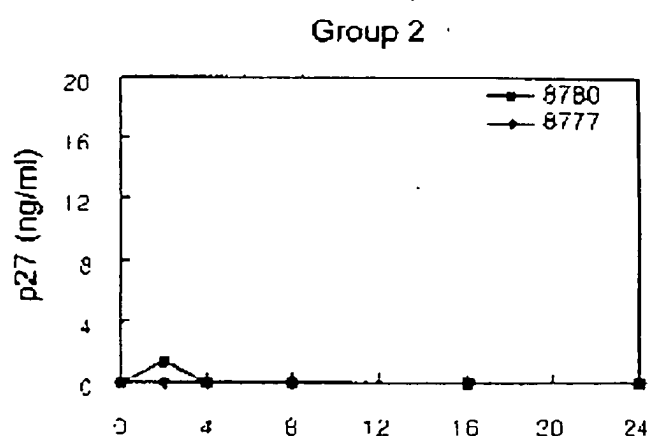
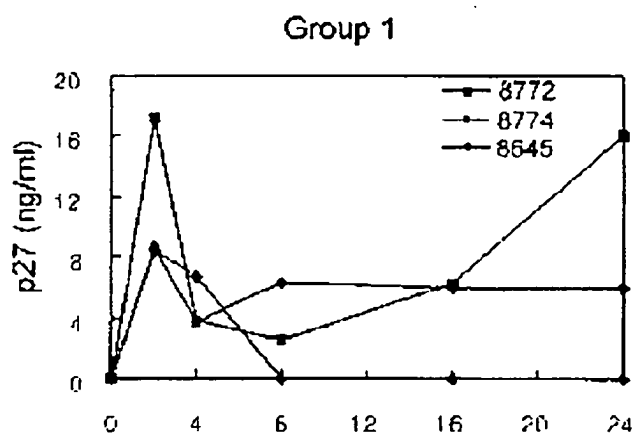
wpc	controls (Group 1)			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
-28	7.8	14.6	14.6	17.1	18.6	12.8	12.2	12.7		14.8	15.5
-24	8.1	12.1	15.7	20.2	27	16.4	12.5	14.1	21.1	18.2	18.4
-20	5.9	11.7	11.7	17.2	14.7	13	12.1	8.6	15.6	11.7	14.9
-16	6.9	13.3	13.6	14.8	15.1	15.9	12.1	18.6	20	19.4	15.1
-12	6.3	12.8	11.8	15.9	15.3	21.7	12.8	11.9	19.2	18.2	14.9
-8	10.6	12.9	16.6	19.3	18	18.4	14.1	13.3	20.4	20.3	19.3
-4	6.7	6.6	11.8	18.5	11.7	10.4	6.5	9.9	13	11.9	15.9
0	3.8	2.6	4.6	16.3	10.4	6.5	3.1	5.6	7.1	4.5	6.3
4	4.2		2.8								
8	3.7	2.2	5.8	13.2	9.3	5	1.4	5.8	5.3	2.4	10.4
12	5	3.1	2.3	16.7	10.3	3.8	2.3	5.3	9	2.1	7.3
16	6.1	3.8	4.5	20.1	15.7	2.6	2.3	4.3	11.2	1.6	7.3
20	5.1	1.9	3.3	18.5	12.1	3	1.3	5.5	6.8	1.1	6.2
24	5.2	2.1	2.4	17.4	15.2	2.4	2.4	8.4	5.9	2	6.1
28	3.3		0.7	20	13.9	2.9	1.4	5.1	7	1.8	7.4



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FIG. 7

Week	Controls (Group 1)			Group 2		Group 3			Group 4		
	8645	8772	8774	8777	8780	8783	8786	8787	8789	8791	8792
0	0	0	0	0	0	0	0	0	0	0	0
2	8.4	17.2	8.6	0	1.35	9.72	6.89	13.68	0.28	3.48	
4	6.7	3.85	3.69	0	0	0	0.97	0.54	0	0	0
8	0	2.5	6.4	0	0	0	0.9	0	0	0	0
16	0	6.3	6	0	0	0	2.21	0	0	4	1.7
24	0	16	6	0	0	0	2.69	0	0	4	1.72



Weeks after SIVmac239 challenge

005021-9740E450

FIG. 8

Monkey#	group	Cell-associated viral load (# of infectious cells per 1×10^6 mononuclear cells)											
		PRMC	LN-cervicalis	Palatine tonsil	Lingual tonsil	spleen	LN-axillaris	LN-inguinal	LN-mesent.	LN-submandib.	thymus	LN-retro-pharyng.	Peyer's patches
Week 25 post-infection													
8777	2	-	ND ^a	ND	ND	ND	ND	8	ND	ND	ND	ND	ND
8780	2	-	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND
Week 52 post-infection													
8777	2	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
8780	2	0.33	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
8783	3	1024	ND	ND	ND	ND	1024	ND	ND	ND	ND	ND	ND
Week 60 post-infection (necropsy)													
8777	2	-	-	ND	ND	-	-	ND	-	-	-	-	-
8780	2	1	-	-	-	16	-	ND	4	2	-	4	-

FIG. 9

Group (monkey#)	Immunogen (weeks post the 1st immunization)					Challenge (46 weeks)
	1'DNA (0week)	2'DNA (8 weeks)	3'DNA or protein (17weeks)	4'DNA or protein (25 weeks)	5'DNA or protein (44 weeks)	
1 (8645, 8772, 8774)	pTV: 800ug	<-	<-	<-	<-	SIVmac239 dose: 10 MID ₅₀ route: i.v
2 (8777, 8780)	pTV-GE: 400ug pTV-dpol: 400ug	<-	<-	<-	<-	
3 (8783, 8786, 8787)	pTV-GE: 200ug pTV-GE-GC: 200ug pTV-dpol: 200ug pTV-dpol-IL2: 200ug	<-	<-	<-	<-	
4 (8789, 8791, 8792)	pTV-GE: 400ug pTV-dpol: 400ug	<-	rRT: 50ug gp120: 50ug p27: 50ug with alum	<-	rRT: 50ug gp120: 50ug p27: 50ug with alum adjuvant	



10/10

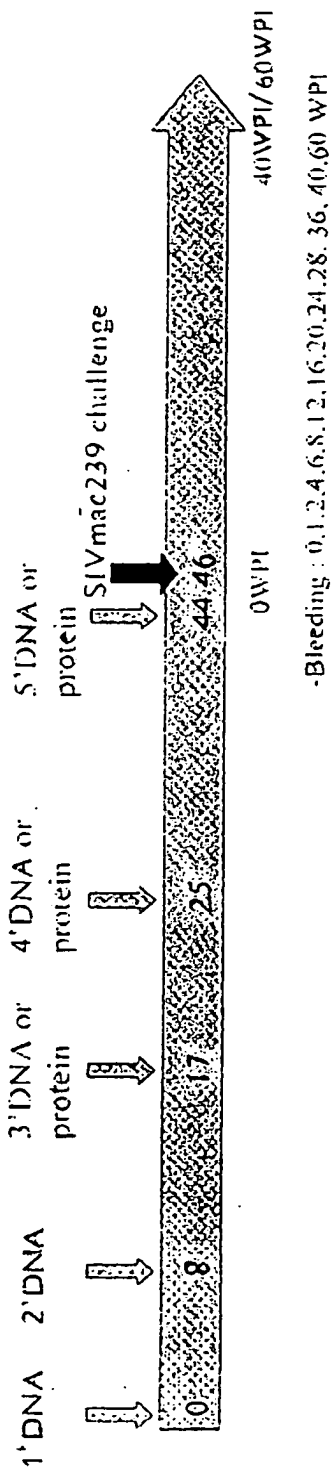


FIG. 10